==========
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Durreshwar Anjum
Timestamp: [year=2008; month=10; day=16; hr=14; min=30; sec=46; ms=426;]
==========

Validated By CRFValidator v 1.0.3

Application No: 10559401 Version No: 1.0

Input Set:

Output Set:

Started: 2008-09-11 20:44:03.770
Finished: 2008-09-11 20:44:05.182
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 412 ms
Total Warnings: 147
Total Errors: 0
No. of SeqIDs Defined: 149
Actual SeqID Count: 149

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (1)
W	213	Artificial or Unknown found in <213> in SEQ ID (2)
W	213	Artificial or Unknown found in <213> in SEQ ID (3)
W	213	Artificial or Unknown found in <213> in SEQ ID (4)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)
W	213	Artificial or Unknown found in <213> in SEQ ID (6)
W	213	Artificial or Unknown found in <213> in SEQ ID (7)
W	213	Artificial or Unknown found in <213> in SEQ ID (8)
W	213	Artificial or Unknown found in <213> in SEQ ID (9)
W	213	Artificial or Unknown found in <213> in SEQ ID (10)
W	213	Artificial or Unknown found in <213> in SEQ ID (11)
W	213	Artificial or Unknown found in <213> in SEQ ID (12)
W	213	Artificial or Unknown found in <213> in SEQ ID (13)
W	213	Artificial or Unknown found in <213> in SEQ ID (14)
W	213	Artificial or Unknown found in <213> in SEQ ID (15)
W	213	Artificial or Unknown found in <213> in SEQ ID (16)
W	213	Artificial or Unknown found in <213> in SEQ ID (17)
W	213	Artificial or Unknown found in <213> in SEQ ID (18)
W	213	Artificial or Unknown found in <213> in SEQ ID (19)
W	213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-09-11 20:44:03.770
Finished: 2008-09-11 20:44:05.182
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 412 ms
Total Warnings: 147
Total Errors: 0
No. of SeqIDs Defined: 149
Actual SeqID Count: 149

Error code	Error Description
	This error has occured more than 20 times, will not be displayed
W 251	Found intentionally skipped sequence in SEQID (90)
W 402	Undefined organism found in <213> in SEQ ID (138)

SEQUENCE LISTING

<110> C. Frank Bennett
Thomas P. Condon

<120> OLIGONUCLEOTIDE MODULATION OF CELL ADHESION

<130> ISPH-0852USA

<140> 10559401
<141> 2008-09-11

<150> PCT/US2004/013379
<151> 2004-04-30

<150> 10/454,663
<151> 2003-06-04

<160> 149

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 1
tgggagccat agcgaggc 18

<210> 2
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 2
gaggagctca gcgtcgactg 20

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 3
gacactcaat aaatagctgg t 21

<210> 4
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 4
gaggctgagg tgggagga 18

<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 5
cgatgggcag tgggaaag 18

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 6
gggcgcgtga tccttatagc 20

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 7
catagcgagg ctgaggttgc 20

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 8
cgggggctgc tgggagccat 20

<210> 9

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 9
agagccccga gcaggaccag 20

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 10
tgcccatcag ggcagtttga 20

<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 11
ggtcacactg actgaggcct 20

<210> 12
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 12
ctcgcgggtg acctcccctt 20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 13
tcagggaggc gtggcttgtg 20

<210> 14
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 14
cctgtcccgg gataggttca 20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 15
cccccaccac ttcccctctc 20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 16
ttgagaaagc tttattaact 20

<210> 17
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 17
agccatagcg aggc 14

<210> 18
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 18
ccatagcgag gc 12

<210> 19
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 19
atagcgaggc 10

<210> 20
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 20
tgggagccat agcgag 16

<210> 21
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 21
ggagccatag cgaggc 16

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 22
gcccaagctg gcatccgtca 20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 23
tctgtaagtc tgtgggcctc 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 24
agtcttgctc cttcctcttg 20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 25
ctcatcaggc tagactttaa 20

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 26
tgtcctcatg gtggggctat 20

<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 27
tctgagtagc agaggagctc ga 22

<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 28
caatcatgac ttcaagagtt ct 22

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 29

accacactgg tatttcacac 20

<210> 30
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 30
gtatggaaga ttataatata t 21

<210> 31
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 31
cacaatcctt aagaactctt t 21

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 32
acctctgctg ttctgatcct 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 33
ctgctgcctc tgtctcaggt 20

<210> 34
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 34
ggtatttgac acagc 15

<210> 35
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 35
aatcatgact tcaagagttc t 21

<210> 36
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 36
tgaagcaatc atgacttcaa g 21

<210> 37
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 37
tataggagtt ttgatgtgaa 20

<210> 38
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 38
acaatgaggg ggtaatctac a 21

<210> 39
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 39
gacaatatac aaaccttcca t 21

<210> 40
<211> 21

<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 40
ccaggcattt taagttgctg t 21

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 41
cctgaagcca gtgaggcccg 20

<210> 42
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 42
gatgagaaaa tagtggaacc a 21

<210> 43
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 43
ctgagcaaga tatctagat 19

<210> 44
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 44
ctacactttt gatttctgt 19

<210> 45
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 45
ttgaacatat caagcattag ct 22

<210> 46
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 46
tttacatatg tacaaattat gt 22

<210> 47
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 47
aattatcact ttactataca aa 22

<210> 48
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 48
agggctgacc aagacggttg t 21

<210> 49
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 49
ccatcttccc aggcatttta 20

<210> 50
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50
aacccagtgc tccctttgct 20

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 51
ggccacattg ggaaagttgc 20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 52
gaagtcagcc aagaacagct 20

<210> 53
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 53
acaggatctc tcaggtgggt 20

<210> 54
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 54
ccaaagtgag agctgagaga 20

<210> 55
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 55
ctgattcaag gctttggcag 20

<210> 56
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 56
tccccagatg cacctgttt 19

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 57
gggccagaga cccgaggaga 20

<210> 58
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 58
acgtttggcc tcatggaagt 20

<210> 59
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 59
ggaatgcaaa gcacatccat 20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 60
cgatgcagat accgcggagt 20

<210> 61
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 61
cctgggaggg tattcagct 19

<210> 62
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 62
cctgtgtgtg cctgggaggg 20

<210> 63
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 63
ggcattttaa gttgctgtcg 20

<210> 64
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 64
cagcctgcct tactgtgggc 20

<210> 65
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 65
cttgaacaat taattccacc t 21

<210> 66

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 66
ttaccattga cataaagtgt t 21

<210> 67
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 67
ctgtgtctcc tgtctccgct 20

<210> 68
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 68
gtctttgttg ttttctcttc c 21

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 69
tgaacatatc aagcattagc 20

<210> 70
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 70
gcaatcttgc tatggcataa 20

<210> 71
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 71
cccggcatct ttacaaaacc 20

<210> 72
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 72
aacatctccg taccatgcca 20

<210> 73
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 73
tcactgctgc ctctgtctca gg 22

<210> 74
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 74
tgattctttt gaacttaaaa gga 23

<210> 75
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 75
ttaaaggatg taagaaggct 20

<210> 76
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 76
cataagcaca tttattgtc 19

<210> 77
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 77
ttttgggaag cagttgttca 20

<210> 78
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 78
aactgtgaag caatcatgac t 21

<210> 79
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 79
ccttgagtgg tgcattcaac ct 22

<210> 80
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 80
aatgcttgct cacacaggca tt 22

<210> 81
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 81
gcctcgctat ggctccca 18

<210> 82
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 82
catggcgcgg gccgcggg 18

<210> 83
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 83
tgcatccccc aggccaccat 20

<210> 84
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 84
tctgagtagc agaggagctc 20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 85
tatgtctccc ccaccacttc 20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 86

agggccactg ctcgtccaca 20

<210> 87
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 87
cgagaggcgg acgggaccg 19

<210> 88
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 88
cgagaggcgg acgggaccgt t 21

<210> 89
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 89
ttgctctccg cctgccctgg c 21

<210> 90

<400> 90
000

<210> 91
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 91
agaggagctc agcgtcgact 20

<210> 92
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 92
ggctgaggtt gcaactctga 20

<210> 93
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 93
ccaggcagga gcaactcctt 20

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 94
ttgaatagca cattggttgg 20

<210> 95
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 95
gcccactggc tgccaagagg 20

<210> 9